REF 7/C

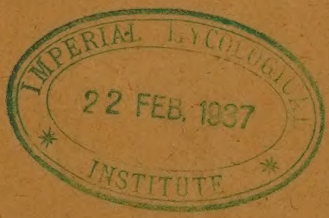
Year XI February, 1937 No. 2

INTERNATIONAL INSTITUTE OF AGRICULTURE

INTERNATIONAL BULLETIN OF PLANT PROTECTION

PUBLISHED MONTHLY

REPRINT FROM THE 'INTERNATIONAL REVIEW OF AGRICULTURE'



ROME
VILLA UMBERTO I
1937

CONTENTS

DISCOVERIES AND CURRENT EVENTS:—

Australia: Notes on Plant Diseases Recorded in New South Wales for the Year ending 30th June, 1936 . . 25
Eritrea: Locusts 26
Greece: Cotton Pests 26
Mozambique: Locust Movements (*Nomadacris septemfasciata* and *Locusta migratoria migratorioides*) 26
Southern Rhodesia: Locust Invasion, 1932-1936 27

LEGISLATIVE AND ADMINISTRATIVE MEASURES:—

French West Africa 27
Germany 27
Germany (Oldenburg) 28
Germany (Saar Territory). . . 28
England 28
Argentine Republic 29
Australia (South Australia) . . 29
Australia (Queensland) 30
Austria 30
Chile 30
United States of America . . 31
France 31
Irish Free State 32
Italy 33
Kenya 34
Libia 34
Morocco (French Zone) . . . 35
New Zealand 35
Portugal 35

RECENT BIBLIOGRAPHY. 36

NOTES:—

IIIrd Soviet-Afghan Locust Control Conference 48

The reproduction, either in whole or in part, of the information published in the *International Bulletin of Plant Protection* is permitted on condition that the source is duly acknowledged.

ROME - PRINTING OFFICE OF THE CHAMBER OF DEPUTIES

INTERNATIONAL BULLETIN
OF PLANT PROTECTION

1937 No. 2

DISCOVERIES AND CURRENT EVENTS *

Australia: Notes on Plant Diseases Recorded in New South Wales for the Year ending 30th June, 1936 †

CEREALS AND FIELD CROPS.

Losses from plant disease in major crops were less than normal. Records were made of occurrence of diseases as indicated in communications for previous years. The development of an epiphytotic of ergot (*Claviceps paspali*) in paspalum was of considerable interest and economic importance. Violet root rot (*Rhizoctonia crocorum*) was recorded for the first time in lucerne; stem nematode (*Anguillulina dipsaci*) and leaf spot (*Macrosporium sarcinaeforme*) were recorded for the first time on red clover.

FRUIT CROPS.

Citrus fruits on coastal areas again suffered severely from black spot (*Phoma citricarpa*) and excessive gumming in citrus and stone fruits was associated with occurrence of rains after a prolonged dry period. Seasonal conditions also emphasised effects of root rots (*Armillaria* and *Ganoderma*) and yellowish wood rot (*Polystictus versicolor*) was more important than usual in pome fruits. Pome fruits were affected severely by black spot (*Venturia inaequalis* and *V. pyrina*) in untreated or improperly sprayed orchards. Losses were caused also in some areas by the occurrence of internal cork in apples. Bunchy top (virus) recurred in some banana growing areas. Fleck (*Entomosporium maculatum*) was observed as a new record for quinces.

OTHER CROPS.

Diseases in vegetables were generally not serious, and records of occurrence were as reported previously. Records of interest included extensive development of stem blight (*Mycosphaerella pinodes*) and Rhizoctonia root rot of peas. Tomato spotted wilt (virus) was noted for the first time on tobacco. New records included pumpkin stem rot (*Scolecotrichum melopthorum*), blight (*Bacterium syringae*) on bean and downy mildew of beet (*Peronospora schachtii*).

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the official correspondent of the Institute, Dr. R. J. NOBLE, Biologist, Biological Branch, Department of Agriculture, Sydney, New South Wales, Australia.

Eritrea: Locusts *

During the month of November, 1936, no locusts have been recorded in the Colony.

Greece: Cotton Pests †

The year 1936 may be considered as a year of cotton caterpillars in Greece.

In fact, *Heliothis armigera*, Hb., *Earias* spp. and *Platyedra gossypiella*, Saund. have caused damage in several districts. The last species has been observed for the first time in the region of Arta in Epirus.

It is also the first year that *Oxycarenus hyalinipennis*, Costa, which up to now was only found in Peloponnese, has appeared in the main-land of Greece in the districts of Aetolia and Levadia.

On the other hand *Tetranychus telarius*, L., an outbreak of which is to be feared in all years, has only caused negligeable damage this year at Levadia.

It is certain that the frequent rains during last summer, which were exceptional for this country, have had a considerable influence on the diffusion of cotton pests.

Mozambique: Locust Movements (*Nomadacris septemfasciata* and *Locusta migratoria migratorioides*) §

During the month of September, 1936, a swarm was reported in the North of the Colony passing near Lake Nyasa.

In the Centre, the movement of the swarms noted in August continues, both in the Tete district and in the frontier regions of the Quilimane district, adjoining Nyasaland.

In the South, the movement of the swarms, which had already increased in August, continued through September. These swarms, two of which on the 3rd of the month passed over Lourenço Marques, proceeded from the region of Kruger Park, in the Transvaal, having more or less a north-southerly direction. They must have originated in South Rhodesia, where both there and in North Rhodesia, considerable locust activity was reported.

A certain movement was noted on the frontiers of Swaziland and Zululand, the locusts crossing and re-crossing in both directions, but the predominate direction was from North to South.

* Communication from Dr. ROLANDO GUIDOTTI, Chief of the Agricultural Bureau of Eritrea, transmitted by the Government of the Colony.

† Communication from the official correspondent of the Institute, Professor C. A. ISAAKIDÈS, Director of the Benaki Phytopathological Institute, Kiphissia, Athens, Greece.

§ Comunication from the official correspondent of the Institute, Mr. JÚLIO GARDÉ ALFARO CARDOSO, Chief of the Entomological Section, Lourenço Marques, transmitted to the Institute by the 'Repartição Técnica de Agricultura' of the Colony.

Finally, if, in the North, the position is comparatively better than last year, in the Centre, it remains the same, and in the South, it has become worse, because the favorable atmospheric conditions this year have allowed a recrudescence of hatchings, and occasionally the appearance of an increased number of hopper bands.

Southern Rhodesia: Locust Invasion, 1932-1936 *

Monthly Report No. 48. November, 1936.

Swarms of the Red Locust (*Nomadacris septemfasciata*, Serv.) have been reported from the following districts during the month, namely:—

Mazoe, Makoni, Mrewa, Inyanga, Umtali, Melsetter, Marandellas, Charter, Chilimanzi, Bikita, Gutu, Victoria, Gwelo, Insiza, Chibi, Ndanga, Gwanda, and Wankie.

Most of these swarms have been described as large.

With the exception of the appearance of one or two swarms in the Mazoe district at the end of the month, the position has shown little change since October.

No specimens with developed ovaries had been received at headquarters and oviposition would appear not to be imminent.

A few specimens infested with maggots were received from the Inyanga district.

Damage to maize was reported in the Umtali district.

With regard to the outlook it may be stated that whilst invasion by swarms nearing breeding condition has not yet occurred, the possibility of a late invasion of this nature cannot be ignored. Eggs were laid mainly from January to March during the 1935-36 season. On the whole, however, the prospects for the growing season are at present favourable.

LEGISLATIVE AND ADMINISTRATIVE MEASURES

French West Africa. — By Decree of the President of the French Republic, dated 12 November, 1936, the deliberation of 30 May, 1936, of the Permanent Commission of the Council of the Government of French West Africa, tending to amend the customs regime relative to insecticides and fungicides of foreign origin imported into the Colony, is rejected [see this *Bulletin*, 1936, No. 10, p. 221]. (*Journal officiel de la République française*, Paris, 19 novembre 1936, LXVIII[e] année, n[o] 271, p. 12012).

Germany. — By Decree of 26 October, 1936, the import of coniferous seed and cones is prohibited for all species growing wild in Germany, with the exception of the Swiss stone pine [*Pinus cembra*]. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Dezember 1936, Bd. VIII, Nr. 9, S. 188).

* Communication from the official correspondent of the Institute, Mr. RUPERT W. JACK, F. E. S., Chief Entomologist, Agricultural Laboratory, Department of Agriculture, Salisbury, Southern Rhodesia.

*** A Circular of 20 November, 1936 notifies that by order of the Minister of the Air Force, military aviation has been charged to supply the necessary aeroplanes and aviators, in order to control, by means of dust preparations, the insects causing damage to State, communal and private forests.

Requests indicating approximately the number of aeroplanes which will be required during the year 1937, must reach the competent authorities of the Air Force prior to the end of March of the same year.

Persons interested are warned that the use of aeroplanes is only advisable as a rule if the areas to be treated are relatively extensive, 200 ha. at least. (*Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin, Anfang Januar 1937, 17. Jahrg., Nr. 1, S. 6).

*** In order to prevent the introduction into England of the cherry fruit fly [*Rhagoletis cerasi*], the import of cherries originating in Germany has been regulated for the year 1937 as follows:—

Up to 27 May, German cherries are admitted without any phytosanitary control.

During the period from 28 May to 26 June, imports are permitted, if the consignments are accompanied by a certificate of origin.

From 27 June onwards, German cherries will not be accepted unless the above-mentioned certificate is completed by a declaration of the competent Plant Protection Service testifying that the cherries were not grown south of 53° North latitude or in East Prussia.

Consignments arriving which have not complied with these dispositions will be refused. Every consignment will be examined by the English Plant Protection Service in order to ascertain the possible presence of the cherry fruit fly. (*Ibid.*, S. 8).

Germany (Oldenburg). — By Decree of 3 November, 1936, the control of voles is made compulsory in the Wesermarsch district. The dispositions relating to the exact locality, duration of control and measures to be adopted, will be given by the District Administrative Authorities. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Dezember 1936, Bd. VIII, Nr. 9, S. 188-189).

Germany (Saar Territory). — By Notification of 19 November, 1936, the tariffs for the inspection of plants and parts of plants intended for export and import, as well as the fees due to the officials carrying out this inspection, have been revised by adopting for this purpose the dispositions in force in Prussia. (*Amtliche Pflanzenschutzbestimmungen*, Berlin, 1. Dezember 1936, Bd. VIII, Nr. 9, S. 189-195).

England. — In consequence of the spread of the Colorado beetle [*Leptinotarsa decemlineata*] into Germany and Luxemburg, by the Importation of Plants (Amendment No. 2) Order of 1936, dated 10 December, 1936, the provisions of the Importation of Plants (Amendment) Order of 1936 [see this *Bulletin*, 1936, No. 7, p. 148] with respect to plants, potatoes, raw vegetables and

cider apples grown in Belgium shall apply to plants, potatoes, raw vegetables and cider apples grown in Germany or Luxemburg.

This Order comes into force on 11 January, 1937. (*Statutory Rules and Orders 1936 No. 1288. Destructive Insect and Pest, England. The Importation of Plants (Amendement No. 2) Order of 1936. Dated December 10, 1936.* (*D. I. P. 594*), London, 1936, 2 pp.).

Argentine Republic. — The Decree No. 89.051 of 26 August, 1936, states the sanitary dispositions which shall regulate the ginning, disinfection and transport of cotton products within the zone at present declared infested by the pink boll worm (*Platyedra* [*Pectinophora*] *gossypiella*), which zone includes the territories of Chaco and Formosa and the province of Corrientes and Santiago del Estero, as well as those zones which shall be later declared as infested. (*Boletín Oficial de la República Argentina*, Buenos Aires, 30 de octubre de 1936, año XLIV, núm. 12.698, págs. 1445 y 1446).

*** The Decree No. 90.185 of 11 September, 1936, emphasises the dispositions of the Decree No. 89.213 of 28 August, 1936, relative to the control of the South American locust [*Schistocerca paranensis*], during the 1936-1937 campaign [see this *Bulletin*, 1937, No. 1, p. 5]. (*Ibid.*, 22 de octubre de 1936, núm. 12.692, pág. 1123).

*** The Ministerial ' Acuerdo ' No. 90.344 of 14 September, 1936, approves the public bidding for the construction of an insectarium at Mendoza. (*Ibid.*, 29 de octubre de 1936, núm. 12.697, pág. 1409).

*** The Decree No. 92.381 of 14 October, 1936, authorizes the purchase of ten thousand flame throwers, required by the ' Dirección de Defensa Agrícola ' for the purpose of controlling the South American locust [*Schist. paranensis*]. (*Ibid.*, 26 de noviembre de 1936, núm. 12.720, pág. 951).

*** By Decree No. 92.813 of 21 October, 1936, the acquisition by public auction of 150,000 kilograms of Paris green for use by the ' Dirección de Sanidad Vegetal ' is approved. (*Ibid.*, pág. 954).

*** By Decree No. 92.869 of 22 October, 1936, a reduction in hiring costs of barriers employed in the control of the South American locust [*Schist. paranensis*] is effected. (*Ibid.*, 6 de noviembre de 1936, núm. 12.704, pág. 197).

*** By Law No. 12.329 of 14 November, 1936, the Executive Authorities are authorized to employ the sum of ten million ' pesos ', taken from the revenue or obtained by means of a credit transaction, for the campaign against the South American locust [*Schist. paranensis*]. (*Ibid.*, 23 de noviembre de 1936, núm. 12.717, pág. 813).

Australia (South Australia). The Act No. 2269, assented to 13 August, 1936, and which may be cited as the ' Phylloxera Act, 1936 ', consolidates certain Acts relating to the protection of vineyards. (*Anno primo Edwardi VIII Regis. A. D. 1936. No. 2269*, Adelaide, [1936], pp. 1-18).

Australia (Queensland). — On 23 July, 1936 have been approved the Rat Prevention and Destruction Regulations of 1936 made by the Director-General of Health and Medical Services. (*Queensland Government Gazette*, Brisbane, 23rd July, 1936, Vol. CXLVII, No. 28, pp. 365-367).

*** The Stock Routes Improvement and Animal and Vegetable Pests Destruction Act of 1936 (No. 8), assented to 23 October, 1936, makes better provision for the administration and improvement of stock routes, for the destruction of animal and vegetable pests, and for other purposes. (*Ibid.*, 29th October, 1936, No. 96, pp. 1249-1280).

Austria. — By derogation to the Decree No. 222 of 13 July, 1932 [see this *Bulletin*, 1932, No. 11, pp. 182-184], modified by the Decree No. 483 of 19 December, 1935 [see this *Bulletin*, 1936, No. 3, p. 53] and prohibiting the import and transit of potatoes and other products capable of serving as vector to the Colorado beetle (*Doryphora* [*Leptinotarsa*] *decemlineata*), the importation of flower bulbs and ornamental plants in pots originating from Belgium is permitted, on the condition that the consignments are accompanied by a health and origin certificate conform to the model annexed to the International Convention for Plant Protection of 1929 [see this *Bulletin*, 1929, No. 4, p. 55], delivered by the Belgian Phytopathological Service and testifying that the consignment is free from the Colorado beetle and the San José scale (*Aspidiotus perniciosus*), that the exporting firm is submitted to special inspection by the Belgian Phytopathological Service and that the contents of the consignment correspond exactly to the declaration made. The different packages or the whole truck must bear the seal of the said Service. (*Neuheiten auf dem Gebiete des Pflanzenschutzes*, Wien, Dezember 1936, 29. Jahrg., Folge 6, S. 230).

Chile. — With the regard to the need of controlling citrus gommosis (*Pythiacystis* [*Phytophthora*] *citrophthora*), the Decree No. 628 of 21 October, 1936, orders as follows:—

Art. 1. — Propagation for sale of common or sweet oranges (*Citrus sinensis*) and lemons (*C. limonum*), by seeds of same or by cuttings, layers or shoots is forbidden.

Art. 2. — The sale only of *Citrus* plants grafted onto the sour or Seville orange (*C. aurantium*) propagated solely by seeds and complying with the following regulations will be permitted:—

(*a*) The grafting must be effected at a minimum height of thirty centimetres from the ground.

(*b*) The grafted shoot must not be allowed to ramify below a distance of 20 centimetres from the place of grafting, that is to say, below fifty centimetres from the ground.

(*c*) The Service of ' Sanidad Vegetal ' will cause to be destroyed at the proprietors' expense, the graftings effected at distances lower than those decreed in Art. 2 and will cause to be pruned, those branches not in conformation with the regulations stated in the said article.

Art. 4. — The said Service will also cause to be destroyed at the owner's expense the seedlings or nurseries of *Citrus* plants grown for seed, layers, shoots or cuttings, unless of the sour or Seville orange species.

Art. 5. — The Service of 'Sanidad Vegetal' will also destroy those seedlings whose development is clearly inferior to the average standard for that age.

Art. 6. — Graftings made during the month following the publication of this Decree in the *Diario Oficial* will not be affected by the aforesaid measures on graftings. (*Diario Oficial de la República de Chile*, Santiago, 7 de noviembre de 1936, año LIX, núm. 17.612, pág. 3277).

United States of America. — On 19 September, 1936 the Secretary of Agriculture has prescribed the revised rules and regulations governing sanitary export certification of plants and plant products, effective on and after 21 September, 1936. (*B. E. P. Q. – San. Exp. Regs.*, [Washington], 1936, 3 pp.).

France. — A Notification of the Ministry of Agriculture to exporters of live plants and fresh vegetables to Great Britain indicates the conditions under which the importation of these plant products is authorized into the United Kingdom. (*Journal officiel de la République française*, Paris, 28 octobre 1936, LXVIII[e] année, n° 253, p. 11247).

*** By Ministerial Decree of 25 November, 1936, the study of the questions relating to plant protection as well as the co-ordination of the ensemble of the relating Service, have been entrusted to an Inspector General of Agriculture, assisted by a district Inspector, under whose control phytopathological inspection is placed, and who will also take the presidency of the technical Commission charged with the official control of sanitary inspection of seed potatoes. (Ministère de l'Agriculture. Direction de l'Agriculture. *Bulletin de l'Office de Renseignements agricoles*, Paris, 1[er] décembre 1936, année 1936, n° 23, p. 550).

*** A Notification of the Ministry of Agriculture to importers of conifers declares that by derogation, on the one hand, of the dispositions of the Decree of 26 November, 1930 [see this *Bulletin*, 1931, No. 2, p. 28] prohibiting the entry into France of plants capable of introducing *Rhabdocline pseudotsugae*, and, on the other hand, those of the Decrees of 18 April, 23 May and 14 October, 1932 establishing measures of reciprocity and quota for plant imports, and on application of article 3 of the Decree of 26 November, 1930, mentioned above, the importation of cut conifer trunks intended for use as Christmas trees is authorized during the period of 1-25 December, 1936, with the condition, however, that these tree trunks are over 2 metres in length and free from any adhering particles of earth. (*Ibid.*, p. 553).

*** A Ministerial Decree of 5 December, 1936, establishes the following:—

Art. 1. — The transit, in the French customs area, of potatoes originating or proceeding from the Netherlands is authorized for the whole year, subject to the conditions listed in Art. 3.

Art. 2. — The transit of these potatoes is subject to the following restrictions:—

(1) Consignments submitted to control measures taken by the customs authorities, by the sealing and locking of the trucks.

(2) Tubers packed in boxes or new sacks. Consignments in bulk are prohibited.

(3) Transit without transhipment at the place of entry on the territorial frontier, and in the case of entry on the maritime frontier (only through the authorized customs houses: Dunkerque, Havre, Bordeaux, Marseille), transhipment direct from the ship to the truck without warehousing on the wharf. When it is found to be impossible to comply with these regulations, the transport from one truck to another, or from a ship to a truck will be authorized under the condition that the goods be transported in accordance with the regulations determined by the Minister of Agriculture, under the control of the Plant Protection Service, in receptacles duly locked and sealed.

(4) Cleaning of the trucks after unloading at the territorial or maritime frontiers, and destruction by fire of all sweepings. (*Ibid.*, 15 décembre 1936, nº 24, p. 582).

*** The Decree of 17 December, 1936, regulating in Algeria the importation and trade in seed potatoes, establishes, in Art. 2, that without prejudice to the dispositions of the Law of 1 August, 1905 applicable to all traders in merchandise, it is forbidden that any trader should sell in Algeria, as potatoes for planting, tubers unsuitable for sowing.

The following are considered as unsuitable for sowing:—

(1) Tubers attacked by wart disease [*Synchytrium endobioticum*] or any other disease or parasite which is the object of any particular official regulation;

(2) Tubers attacked by dry rot [*Fusarium*] or wet rot [*Bacillus*] or *Phytophthora* [*infestans*] or showing serious injuries in a proportion superior to:—

3 per cent. if the tubers weigh on an average more than 100 grams;

4 per cent. if the average weight of the tubers is between 65 and 100 grams;

5 per cent. if the average weight of the tubers is less than 65 grams. *Ibid.*, 1er janvier 1937, année 1937, nº 1, p. 5).

Irish Free State. — The Noxious Weeds Act, 1936, dated 8 August, 1936, makes better provision for preventiug the growth and spreading of noxious weeds, amends the Law relating to noxious weeds, and makes provision for other matters connected therewith. (*Saorstát Eireann. Acht um Fhiaile Dhíobhálach, 1936. Noxious Weeds Act, 1936.* Dublin, 1936, Uimh. 38 de 1936, No. 38 of 1936, 11 pp.).

Italy. — A Ministerial Decree of 16 October, 1936, authorizes the shooting and capture of European starlings [*Sturnus vulgaris*] causing severe damage to agricultural crops in certain zones of the province of Parma. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 23 ottobre 1936, anno 77°, n. 247, p. 3130).

*** By Royal Decree of 19 October, 1936, a Syndicate for the improvement and development of fruit cultivation in the province of Nuoro has been founded. (Ministero dell'Agricoltura e delle Foreste. *Bollettino Ufficiale*, Roma, 16 novembre 1936, anno VIII, n. 22, p. 1029).

*** By Ministerial Decree of 21 October, 1936, in the zones of the province of Syracuse where there are citrus orchards infected by 'mal secco' [*Deuterophoma tracheiphila*], and which will be indicated by a Decree of the Prefect of the said province, the cutting of diseased twigs and their destruction by fire has been made compulsory.

These two methods of control must be carried out by the owners of the lands affected by the disease. (*Il Buon Fattore*, Siracusa, ottobre 1936, anno XXVI, n. 10, pp. [1-2]).

*** By Ministerial Decree of 27 October, 1936, a compulsory Syndicate for the improvement and development of olive-growing in the province of Trapani has been founded. (*Bollettino Ufficiale*, 16 novembre 1936, n. 22, p. 1034).

*** The Ministerial Decree of 12 November, 1936, authorises, under certain conditions, the shooting and capture of hares causing damage to agricultural crops in the Mount Tesa zone, province of Belluno. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 19 novembre 1936, anno 77°, n. 268, p. 3354).

*** A Ministerial Decree of 19 November, 1936, authorises, under certain restrictions, the capture of hares, partridges, and pheasants in certain zones of the province of Cuneo, in order to prevent the damage caused by these animals to agricultural crops in the said province. (*Ibid.*, 26 novembre 1936, n. 274, p. 3408).

*** By Ministerial Decree of 23 November, 1936, the communes of Grotte di Castro, Gradoli, Acquapendente and San Lorenzo Nuovo, in the province of Viterbo, have been declared infested with grape phylloxera [*Phylloxera vastatrix*]. (*Ibid.*, 4 dicembre 1936, n. 281, p. 3504).

*** In order to prevent the damage that the swarming of game might cause to agricultural crops, the interdiction on the shooting and capture of birds in the zone called Montagna Grande of the province of Trapani, is repealed by Ministerial Decree of 25 November, 1936. (*Ibid.*, p. 3501).

*** By Decree of the Minister of Finance, dated 12 December, 1936, the application of duty at the reduced rate of L. 0.50 per cent., is extended, commencing from 1 January, 1937, to the parasiticides 'Volck Superiore' and 'Volck Stella'. (*Ibid.*, 19 gennaio 1937, anno 78°, n. 14, pp. 191-192).

*** By Ministerial Decree of 18 December, 1936, the wine growing territories of the communes of the provinces of Vicenza, Belluno and Rovigo have been declared infested by grape phylloxera [*Phylloxera vastatrix*].

By Ministerial Decree of 22 December, 1936, the wine growing areas of the communes of the provinces of Milan, Como, Varese, Sondrio, Brescia and Mantova have been declared infested by grape phylloxera.

By Ministerial Decree of the same date the territory of the commune of Castelforte, in the province of Littoria, has been declared infested by grape phylloxera.

By Ministerial Decree of 30 December 1936, the lands of the communes of Rocca d'Aspide, Bellosguardo, Castel San Lorenzo, Felitto, Cardile, Moio, Rofrano, Policastro and Laurino, in the province of Salerno, have been declared infested with grape phylloxera.

By Ministerial Decree of 30 December, 1936, the wine growing areas of the communes of the provinces of Genoa and La Spezia have been declared infested with grape phylloxera.

By Ministerial Decree of the same date, the territories of the communes of Lagonegro, Carbone, Calvera, Castronuovo di S. Andrea, Castelluccio Inferiore, Castelluccio Superiore, Castelsaraceno, Latronico, Maratea, Rivello, Rotonda and Vigianello, in the province of Potenza, have been declared infested with grape phylloxera. (*Ibid.*, 11 gennaio 1937, n. 7, p. 82).

*** By Ministerial Decree of 30 December, 1936, the territory of the commune of Accadia in the province of Foggia has been declared infested with grape phylloxera. (*Ibid.*, 18 gennaio 1937, n. 13, p. 163).

Kenya. — The Government Notice No. 673 of 16 October, 1936 contains the Diseases of Plants Prevention (Coffee) (Amendment) Rules, 1936. In virtue of these rules no coffee plants, whether living or dead, coffee beans, coffee seed or coffee (excluding roasted coffee beans, ground coffee and coffee extract) shall be imported into the Colony except under a permit issued by the Director of Agriculture who may in his sole discretion refuse to issue such permit and may impose any conditions in such permit as to him may seem desirable. (*Supplement No. 44. Colony and Protectorate of Kenya. Supplement to the Official Gazette. Proclamations Rules and Regulations* (*No. 41*), Nairobi, October 27, 1936, Vol. XXXVIII, No. 53, p. 327).

Libia. — By Decree of the Governor General No. 11277, of 20 June, 1936, a Museum of Libian Natural History has been established at Tripoli, under the supervision of the Government. It includes, for the present, four Sections: Geology, Zoology, Botany, and Ethnography.

The Section of Zoology is also charged with the service of Agricultural Entomology of the Colony.

To this last Section has ben attached, as curator, the entomologist of the Agricultural Bureau of Cyrenaica. This official retains his present functions which are extended to the whole of Lybia. (*Bollettino Ufficiale della Libia*, Tripoli, 11 agosto 1936, anno XXIII, n. 24, p. 884).

Morocco (French Zone). — A Decree of the Director of Economic Affairs, dated 16 October, 1936, completing the Decree of 10 September, 1936 [see this *Bulletin*, 1936, No. 11, p. 247] relating to the sanitary policy of imported plants, it is established that consignments of plants, layers, cuttings, scions, flower bulbs, tubers, bulbs, rhizomes, roots and cut flowers must be accompanied by a copy of the trade invoice, certified as being a true copy by the consigner of the importer, and listing the botanical species and varieties, name and address or the consignee, weight of the packages and detailed description of the contents of each. (Empire chérifien. Protectorat de la République française au Maroc. *Bulletin officiel*, Rabat, 23 octobre 1936, XXV^e année, n° 1252, p. 1260).

*** By Decree of the Director of Waters and Forests, dated 16 December, 1936, the destruction of boars causing considerable damage to crops in the circle of Ouezzane is authorized. (*Ibid.*, 25 décembre 1936,, n° 1261, p. 1473).

New Zealand. — By Order in Council of 12 June, 1936 are revoked the Orders in Council of 21 December, 1886, 13 May, 1890, and 6 July, 1931 declaring several animals (cat, stoat, weasel, mongoose, and ferret) to be natural enemies of the rabbit. (*The New Zealand Gazette*, Wellington, June 18, 1936, Numb. 40, p. 1157).

*** By Special Order made by the Wairarapa South County Council on 21 May, 1936, and published by the Minister of Agriculture on 15 June, 1936, the milk or variegated thistle (*Silybum*) is declared to be a noxious weed in the said County. (*Ibid.*, p. 1165).

*** By Special Order, made by the Featherston County Council on 9 October, 1936 and published by the Minister of Agriculture on 16 October, 1936, the plant known as *Silybum* (milk thistle) is declared to be a noxious weed in the Featherston County. (*Ibid.*, October 22, 1936, Numb. 69, p. 1915).

*** By Special Order, made by the Raetihi Borough Council on 13 October, 1936 and published by the Minister of Agriculture on 19 October, 1936, all plants mentioned in the Second Schedule of the Noxious Weeds Act, 1928, as extended from time to time by the Governor-General in Council, are noxious weeds within the Borough of Raetihi. (*Ibid.*).

Portugal. — By Decree No. 27:055 of 29 September, 1936, the regulation relating to the phytosanitary inspection of nurseries is promulgated. (*Diário do Govêrno*, Lisboa, 29 de setembro de 1936, I série, núm. 229, págs. 1142-1144).

*** The Decree No. 27:056 of 29 September, 1936, declares the zone comprising the districts of Aveiro and Porto, to be under a prophylactic protective regime, as according to the meaning of Decree No. 11:161 of 19 October, 1925,

in order to prevent the spread of small centres of infestation of insects (not specified in this Decree), which have appeared in various localities of the said districts and which are harmful to fruit trees. (*Ibid.*, pág. 1144).

*** The Decree Law No. 27:207 of 16 November, 1936, relating to the reorganisation of the Ministry of Agriculture, specifies in articles 21, 22, 23, 24, and 25, the organisation and the prerogatives of the 'Repartição de Serviços Fitopatológicos', dependent on the General Department of Agricultural Services.

A Phytopathological Inspection Service, dependent on the said 'Repartição', will be established at Porto. (*Ibid.*, 16 de novembro de 1936, núm. 269, págs. 1425-1451).

RECENT BIBLIOGRAPHY

AITKINS, A. E. Spruce cone bug, *Gastrodes abietis*, Linn. *The Scottish Forestry Journal*, Edinburgh, 1936, Vol. 50, Pt. 1, pp. 44-49, pls. III-IV. References, p. 49.

ALFIERI, Anastase. Sur deux Rhynchophores galligènes (Coleoptera — Curculionidae). *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIX[e] année, XX[e] vol., p. 21-23, fig. 1-5.
[*Baris* (*Aegyptobaris*) *arctithorax* and *Hypurus portulacae* on *Portulaca oleracea*].

ARTEMIEV, G. V. Virus diseases of plants in humid subtropics. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 10-19, figs. 1-20. [Bibliography], p. 19.
[In Russian, with title and summary in English].

AUFHAMMER, G., und HOFMANN, Chr. Wanzenschäden an Getreide. *Praktische Blätter für Pflanzenbau und Pflanzenschutz*, Freising 1936, XIV. Jahrg., Heft 9, S. 253-265, Abb. 1-13.
[*Eurygaster maura*, *Aelia acuminata*, *Dolycoris baccarum*, *Carpocoris fuscispinus*, *C. purpureipennis*, *Palomena prasina*].

BALDACCI, Elio. L'immunità acquisita attiva nelle piante. *Rivista di Biologia*, Perugia, 1936, vol. XXI, fasc. III, pp. 453-463. Bibliografia, pp. 461-462.

BARRADAS, Henrique. Contribuição ao estudio das pragas do tabaco. A "paquinha" (Neocurtilla hexadactyla Perty). Um inimigo implacavel e perigoso, sua identificação e possiveis medios de combatel-o. *Boletim do Ministerio da Agricultura*, Rio de Janeiro, 1936, anno 25, num. 4-6, pags. 123-136, 15 figs., 1 diagr.

BAVENDAMM, W. Der Rindenbrand der Pappeln. *Tharandter Forstliches Jahrbuch*, Berlin 1936, 87. Bd., Heft 2, S. 177-179, 1 Abb.
[*Dothichiza populea*].

BELAÚNDE, Carlos Llosa. Informe sobre la aplicación del riego en el algodonero al pie de las plantas y su influencia sobre el control del arrebiatado (Dysdercus ruficollis). *La Vida Agricola*, Lima-Perú, 1936, vol. XIII, no. 156, págs. 890 a 892.

BELIZIN, A. Influence of vernalization on the comparative infestation of cereals with insect pests. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 54-67, figs. 1-9.
[In Russian, with title and summary in English].

BENINCASA, M. Il marciume radicale del tabacco. *Bollettino Tecnico del R. Istituto Sperimentale per la Coltivazione dei Tabacchi "Leonardo Angeloni"*, Scafati, 1936, anno XXXIII, n. 3, pp. 111-114, figg. 1-5.
[With title and summary in English:— 'The root-rot of tobacco'. — *Thielavia basicola*].

BENNETT, C. W., and ESAU, Katherine. Further studies on the relation of the curly top virus to plant tissues. *Journal of Agricultural Research*, Washington, D. C., 1936, Vol. 53, No. 8, pp. 595-620, figs. 1-10. Literature cited, p. 620.

BERKELEY, G. H. Root rots of the raspberry. *Canadian Journal of Research*, Ottawa, Canada, 1936, Vol. 14, Sec. C, No. 8, pp. 306-317, pls. I-IV. References, pp. 316-317.
[*Coniothyrium fuckelii*, *Cylindrocarpon radicicola*, *Fusarium* sp. (*F. orthoceras* ?), *Cylindrocladium* sp., *Pythium* spp., *Rhizoctonia solani*, *Rhizoctonia* sp.].

BERTHELOT, Albert, et AMOUREUX, G. Recherches sur la composition chimique des tumeurs de la betterave déterminées par *Bacillus tumefaciens*. *Comptes rendus des séances de la Société de Biologie et de ses filiales et associées*, Paris, 1936, tome CXXIII, nº 34, p. 942-944.

BERTHELOT, Albert, et AMOUREUX, G. Sur la teneur en glutathion et en acide ascorbique des tumeurs de la betterave déterminées par *Bacillus tumefaciens*. *Comptes rendus des séances de la Société de Biologie et de ses filiales et associées*, Paris, 1936, tome CXXIII, nº 34, p. 944-946.

BORCHSENIUS, N. S. Zur Fauna der Schildläuse (Coccidae) des Kaukasus. *Proceedings of the Agricultural Institute of Krasnodar*, Krasnodar, 1936, issue IV, pp. 97-139, figs. 1-3.
[In Russian, with title and summary in German].

BRANAS, Jean, et BERNON, Georges. Troisième contribution à l'étude du court-noué de la vigne. *Revue de Viticulture*, Paris, 1936, 43e année, tome LXXXV, nº 2216, p. 469-472. Bibliographie, p. 471-472.

BRANDENBURG, E. Die sogenannte Glasigkeit der Steckrüben. *Zeitschrift für Pflanzenkrankheiten* (*Pflanzenpathologie*) *und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 53-58, Abb. 1-4. Schrifttum, S. 58.
[Probably a disorder caused by boron deficiency].

BRANDT, Herbert. Über Mehrfachbegattung beim Kiefernspanner (*Bupalus piniarius* L.). *Anzeiger für Schädlingskunde*, Berlin 1936, XII. Jahrg., Heft 12, S. 143-145. Literatur, S. 145.

BRETT, C. C., DILLON WESTON, W. A. R., and BOOER, J. R. Seed disinfection. III. Experiments on the germination of peas. Seed protection by the use of disinfectant dusts containing mercury. *The Journal of Agricultural Science*, London, 1937, Vol. XXVII, Pt. 1, pp. 53-66, pl. I. References, p. 66.

BRIERLEY, Philip, and MCWHORTHER, Frank P. A mosaic disease of iris. *Journal of Agricultural Research*, Washington, D. C., 1936, Vol. 53, No. 8, pp. 621-635, figs. 1-4.

BROADFOOT, H., and WHITTAKER, E. C. Superficial scald in Granny Smith apples. Experiments at Batlow indicate control measures. *The Agricultural Gazette of New South Wales*, Sydney, 1936, Vol. XLVII, Pt. 7, pp. 393-395, 398, 2 figs.
[Apple scald may be defined as a superficial brown discoloration of the skin. It occurs upon the fruit in storage, or after removal from storage].

BUHL, Claus, und MEYER, Eckart. Ein neues Gerät zum Rapskäferfang. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 34-38, Abb. 1-3.
[*Meligethes aeneus, Ceutorrhynchus assimilis*].

BUSSMANN, B. Untersuchungen über die Virulenz von *Ophiobolus graminis* Sacc. *Phytopathologische Zeitschrift*, Berlin 1936, Bd. IX, Heft 6, S. 571-581, Abb. 1-5.

CASSAB, Antoine. Notes sur l'accouplement des courtilières (Orthoptera-Gryllotalpidae). *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIX^e année, XX^e vol., p. 24-25.
[*Gryllotalpa gryllotalpa* L., brachypter form (= *copta* de Haan)].

CASTELLANI, Ettore. Una nuova specie di Rhizoctonia: "Rh. Muneratii" n. sp. *Nuovo Giornale Botanico Italiano* (Nuova serie), Firenze, 1936, vol. XLIII, n. 3, pp. 563-567, fig. 1, tav. VII.
[On *Erigeron canadensis* near Rovigo, Italy].

CHEEL, Edwin. Paraguay burr also known as sheep burr. A new introduction? *The Agricultural Gazette of New South Wales*, Sydney, 1936, Vol. XLVII, Pt. 7, pp. 362-363, 373, 3 figs.
[*Acanthospermum brasilum*].

CLARK, A. F. The needle-tying moth (*Tortrix excessana* Walk.). *The New Zealand Journal of Science and Technology*. Wellington, N. Z., 1936, Vol. XVII, No. 5, pp. 679-685, figs. 1-4. References, p. 685.

CLAVADETSCHER, W. Bericht der kantonalen Zentralstelle für Obstbau, Custerhof, Rheineck, über einen Versuch mit Blauspritzung in Wallenstadt. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 508-509.

DI CAIRANO, Vitale. La coltura del mandorlo in Tripolitania. *Bollettino del R. Ufficio Centrale per i Servizi Agrari della Libia*, Tripoli, 1936, anno V, n. 12, pp. 473-490, 8 tav.
[Lists, *inter alia*, the chief enemies of the almond in the Colony].

DILLON WESTON, W. A. R., HANLEY, F., and BOOER, J. R. Seed disinfection. II. Large-scale field trials on the disinfection of seed corn with mercury dust disinfectants. *The Journal of Agricultural Science*, London, 1937, Vol. XXVII, Pt. 1, pp. 43-52. Reference, p. 52.

DODONOV, B. On the comparative resistance of some species of insects to the arsenic and fluorine insecticides. *Bulletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 55-77, figs. 1-2. [Literature cited], pp. 75-76.
[In Russian, with title and summary also in English].

DOUNINE, M. S., and PONER, V. M. Ozoniosis (Texas root-rot and its analogues). USSR People's Commissariat of Agriculture. Administration for Foreign and Domestic Plant Quarantine. Moscow, 1936, 328 pp., 79 figs. [Literature cited], pp. 314-[323].
[In Russian, with title and summary in English. — *Phymatotrichum omnivorum*].

DOVNIKOV, A. Agrotechnical measures in the codling moth control. *Plant Protection*. Leningrad, 1936, fasc. 9, pp. 128-129.
[In Russian, with title also in English. — *Cydia pomonella*].

EBELING, Walter. Effect of oil spray on California red scale at various stages of development. *Hilgardia*, Berkeley, California, 1936, Vol. 10, No. 4, pp. 95-125, figs. 1-11. Literature cited, p. 125.
[*Aonidiella aurantii*].

EIDELMAN, Z. M. The effect of the mineral oil emulsions on the leaves activity. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 71-73.
[In Russian, with title also in English].

FAHMY, I. The European corn borer, *Pyrausta nubilalis* (Hübn.), a major pest of maize in Egypt (Microlepidoptera-Pyralidae). *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIX[e] année, XX[e] vol., p. 58-60.

FEDOROV, S. M., and KOZLOVA, E. P. The pests of the main essential oil plants in the Crimea. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 59-65, figs. 1-3.
[In Russian, with title also in English. — Pests of *Rosa damascena*, *R. gallica*, *Lavandula vera*, *L. spica* and *Polianthes tuberosa*].

FIFE, J. M., and FRAMPTON, V. L. The pH gradient extending from the phloem into the parenchyma of the sugar beet and its relation to the feeding behavior of Eutettix tenellus. *Journal of Agricultural Research*, Washington, D. C., 1936, Vol. 53, No. 8, pp. 581-583, figs. 1-4. Literature cited, p. 593.

FINLAYSON, L. R., and REEKS, W. A. Notes on the introduction of *Diprion* parasites to Canada. *The Canadian Entomologist*, Orillia, 1936, Vol. LXVIII, No. 7, pp. 160-166.

FISH, S., and PUGSLEY, A. T. Bacterial canker of tomatoes. *The Journal of the Department of Agriculture, Victoria, Australia*, Melburne, 1936, Vol. XXXIV, Pt. 10, pp. 520, 528, 1 fig. References, p. 528.
[A record of the appearance of *Phytomonas michiganensis* in Victoria].

FRAPPA, Cl. Les Pamphilinae nuisibles au riz à Madagascar. *Bulletin économique trimestriel*, Tananarive, 1936, nouv. sér., n° 6, p. 172-174. Bibliographie, p. 174.
[*Pamphila borbonica* and *P. poutieri*].

GARCÉS OREJUELA, Carlos. La roya de la papa. Una enfermedad nueva entre nosotros. *Boletín Agrícola*, Medellín-Colombia, 1936, año IX, n° 218, págs. 689 a 692, figs. 1-3.
[*Puccinia pittieriana*].

GASSNER, G., und STRAIB, W. Untersuchungen zur Bestimmung der Ernteverluste des Weizens durch Gelb- und Schwarzrostbefall. *Phytopathologische Zeitschrift*, Berlin 1936, Bd. IX, Heft 5, S. 479-505, Abb. 1-4. Schriftenverzeichnis, S. 504-505.
[*Puccinia glumarum* and *P. graminis*].

GAWALOW, I. Die wichtigsten Schildläuse (Coccidae) – Schädlinge der Gartenpflanzen. *Proceedings of the Agricultural Institute of Krasnodar*, Krasnodar, 1936, issue IV, pp. 53-95. [Literature cited], pp. 92-94.
[In Russian, with title and summary in German].

GÓMEZ-MENOR O., Juan. Contribución al conocimiento de los insectos que atacan a las plantas forestales. *Revista de Agricultura y Comercio*, Ciudad Trujillo, República Dominicana, 1936, vol. XXVII, núm. 86, págs. 2737 y 2738, 9 figs.
[*Apate carmelita*, *Saissetia oleae*, *Selenaspidus articulatus*, *Pseudaonidia tesserata*, *Coccus viridis*, *Hypsipyla grandella*, *Aristotelia* sp. on *Swietenia mahagoni* in the Dominican Republic].

GRANKINA, K. Washing of the soil as a method for recording small soil insects. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 124-125.
[In Russian, with title also in English].

GRATIA, André, et MANIL, Paul. Pourquoi le virus de la mosaïque du tabac et le virus X de la pomme de terre ne passent-ils pas à la descendance par les graines ? *Comptes rendus des séances de la Société de Biologie et de ses filiales et associées*, Paris, 1936, tome CXXIII, n° 29, p. 509-510.

HADORN, Ch. Quelques problèmes actuels de l'entomologie forestière appliquée. *Journal forestier suisse*, Berne, 1936, 87me année, nº 4, p. 86-90; nº 5, p. 105-114, fig. 1-5.

HAAS, A. R. C. Zinc relation in mottle-leaf of citrus. *The Botanical Gazette*, Chicago, Illinois, U. S. A., 1936, Vol. 98, No. 1, pp. 65-86, figs. 1-7. Literature cited, p. 86. [A physiological disease].

HASE, Albrecht. Ein Fall von ungewöhnlich starkem Gummifluss an Mirabellen. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 58-62, Abb. 1-2.

HASSEBRAUK, K. Pilzliche Parasiten der Getreideroste. *Phytopathologische Zeitschrift*, Berlin 1936, Bd. IX, Heft 5, S. 513-516.
[*Olpidium uredinis, Darluca filum, Verticillium niveostratosum, Cephalosporium acremonium, V. fungicola* nov. comb., *Fusidium* (*F. hormiscii* ?, *F. sphaeriae-chioneae* ?), *Spicaria* sp., *Cylindrosporium* sp., parasitic on *Puccinia* spp.].

HECHT, Otto. Studies on the biology of *Chilocorus bipustulatus* (Coleoptera-Coccinellidae), an enemy of the red scale *Chrysomphalus aurantii*. *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIXe année, XXe vol., p. 299-326, figs. 1-2, graphs I-II.

HEIM, Roger, et BOURIQUET, L. La maladie de l'apoplexie du giroflier à Madagascar. *Comptes rendus hebdomadaires des séances de l'Académie d'Agriculture de France*, Paris, 1937, tome XXIII, nº 1, p. 25-29.
[According to the authors, the disease affecting *Eugenia caryophyllata* might possibly be of a physiological nature].

HÉRANGER, Serge-F. La persistance des liquides et le mouillage des végétaux. *Revue de Viticulture*, Paris, 1936, 43e année, tome LXXXV, nº 2215, p. 449-453, fig. 1; nº 2216, p. 472-477, fig. 2; nº 2217, p. 491-498, fig. 3-5.

HERBST, Walter. Venturia pirina Aderhold. I. Zur Formenmannigfaltigkeit des Pilzes. *Die Gartenbauwissenschaft*, Berlin 1936, 10. Bd., 3. Heft, S. 428-450, Abb. 1-13. Literaturverzeichnis, S. 450.

HOLENSTEIN, W. Bericht der kantonalen Zentralstelle für Obstbau in Pfäffikon, Kt. Schwyz, über Blauspritzversuche. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 506-508.

HOLST, Eugene C. Zygosaccharomyces pini, a new species of yeast associated with bark beetles in pines. *Journal of Agricultural Research*, Washington, D. C., 1936, Vol. 53, No. 7, pp. 513-518, fig. 1, pl. 1. Literature cited, pp. 517-518. [A diagnosis of this new species associated with *Dendroctonus* and *Ips* spp. is appended].

HUBAULT, Et. Une variété géante de *Physokermes abietis* Geoffr. (*Hemipt. Coccidae*) peu commune en France. *Comptes rendus des séances de la Société de Biologie et de ses filiales et associées*, Paris, 1936, tome CXXII, nº 21, p. 677-678.

HUSAIN, M. Afzal, and MATHUR, C. B. Studies on *Schistocerca gregaria* Forsk. VIII. Influence of carbon dioxide on development of black pigmentation in *Schistocerca gregaria* Forsk. *The Indian Journal of Agricultural Science*, Delhi, 1936, Vol. VI, Pt. V, pp. 1005-1030, pls. LVII-LIX. References, p. 1030.

INSTITUT INTERNATIONAL D'AGRICULTURE. INTERNATIONAL INSTITUTE OF AGRICULTURE. Aperçu de bibliographies courantes concernant l'agriculture et les sciences connexes. A survey of current bibliographies on agriculture and allied subjects. Rome, 1937, VIII, 84 p. Prix: 10 lires.
[Text in French and English. — Contains, *inter alia*, the sources of current bibliographical information published in the different countries, relating to mycology, plant pathology, agricultural entomology, etc.].

JOHNSON, James. Relation of root pressure to plant disease. *Science*, Lancaster, Pa., 1936, New Series, Vol. 84, No. 2171, pp. 135-136.

JUKOVSKY, A. Infestation of spring wheat with the frit fly in dependance on the place of cultivation and on rotation. *Plant Protection*, Leningrad, 1936, fasc. 9. pp. 129-130.
[In Russian, with title also in English. — *Oscinosoma frit*].

KALANDADZE, L., and PATARAVA, S. I. The corn moth on the subtropical plants. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 79-80, figs. 1-2.
[In Russian, with title also in English. — *Pyrausta nubilalis*].

KALASHNIKOV, K. Influence of mineral fertilizers on the development of Moniliopsis Aderholdii on cabbage in hotbeds. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 49-53.
[In Russian, with title and summary in English].

KAMAL, M. Recent advances in the control of the pink boll-worm (*Platyedra gossypiella*, Saunders) by natural enemies. *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIX^e année, XX^e vol., p. 259-292, charts I-II, pls. I-X.

KASSAB, A. Preparation and method of application of the zinc phosphide bait employed in the control of the mole-cricket *Gryllotalpa*. *Ministry of Agriculture, Egypt. Technical and Scientific Service. Entomological Section. Bulletin No. 178*, Cairo, 1936, 12 pp., 8 pls. Literature, p. 11.

[KENYA DEPARTMENT OF AGRICULTURE]. Pest on ramie. *The East African Agricultural Journal of Kenya, Tanganyika, Uganda and Zanzibar*, Nairobi, 1936, Vol. II, No. 3, p. 187.
[*Acraea esebria* on *Boehmeria*].

KHARITONOV, J. Use and estimation of agrotechnical methods of controlling Agrotis segetum under the conditions of the Gorky region. *Plant Protection*, Leningrad, 1936, fasc. 9, p. 140.
[In Russian, with title also in English].

KHARITONOV, J. The estimation of the chemical and mechanical methods of controlling Agrotis segetum. *Plant Protection*, Leningrad, 1936, fasc. 9, p. 141.
[In Russian, with title also in English].

KIRITSCHENKO, Alexej N. The distribution of insect scales (Homoptera Coccoidea) in USSR from zoogeographical and ecological points of view. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 68-75.
[In Russian, with title also in English].

KIRTBAVA, J. K. Mechanisation of citrus pests control. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 41-58, figs. 1-19.
[In Russian, with title and summary in English].

KLAPP, E. Vordringliche Forschungsziele bei der Bekämpfung des Kartoffelabbaus. *Forschungsdienst*, Neudamm und Berlin 1937, Bd. 3, Heft 1, S. 10-11.

KLEBAHN, H. Untersuchungen über Chondroplea populea (Dothichiza populea Sacc. u. Br.). *Zeitschrift für Pflanzenkrankheiten* (*Pflanzenpathologie*) *und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 38-52, Abb. 1-6. Literatur, S. 52.

KONAKOV, N., and ONISSIMOVA, Z. An apparatus for recording the insect fauna of the grass-cover. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 125-127. [Literature cited], p. 127.
[In Russian, with title also in English].

KOSSOBUTZKY, M. Test of the diluted sulphur preparations of the „ ultra-sulphur " type for the control of the red spider (Epitetranychus althaeae). *Plant Protection*, Leningrad, 1936, fasc.9, pp. 5-22.
[In Russian, with title and summary in English].

KOZHANTCHIKOV, I., and MICHAILOVA, T. Physiological conditions of the resistance of the larvae of Pyrausta nubilalis Hbn. to submergence. *Bulletin of Plant Protection*, I Series: Entomology, Leningrad, 1936, No. 14, pp. 33-49, figs. 1-5.
[Literature cited], p. 48.
[In Russian, with title and summary in English].

KUNIKE, Georg. Wanzen an Getreide. *Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin 1937, 17. Jahrg., Nr. 1, S. 1-4, Abb. 1-5.
[*Eurygaster* spp., *Aelia* spp., *Carpocoris fuscispinus*, *Dolycoris baccarum*, *Palomena prasina*].

KUPRIANOV, W. The study of anti-smut fungicides under the conditions of North Kazakhstan. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 130-133.
[In Russian, with title also in English].

KURSANOV, L. Some data on the mycology and phytopathology of humid subtropics. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 73-75.
[In Russian, with title also in English].

LAIDLAW, W. B. R. Note on certain *Anthocoridae* (*Rhyncota*) predaceous on *Adelges cooleyi*, Gill. *The Scottish Forestry Journal*, Edinburgh, 1936, Vol. 50, Pt. 2, pp. 105-108, pl. XIII.
[*Anthocoris nemorum*, *Tetraphleps vittata*, *Acomporis alpinus*].

LANGE-DE LA CAMP, Maria. Gewinnung und Kultur der Haplonten von *Ustilago tritici*. *Phytopathologische Zeitschrift*, Berlin 1936, Bd. IX, Heft 5, S. 455-477, Abb. 1-16. Schriftenverzeichnis, S. 477.

LAURENT, P. Le campagnol des champs (*Microtus arvalis* Pallas) existe-t-il en Abyssinie ? ou, quelques considérations sur un point de nomenclature. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord*, Alger, 1936, tome XXVII[e], n° 8, p. 384-386.

LAVROV, I., and PARAMONOVA, V. Solubility of some salts of stomach insecticides in solutions with different pH. *Bulletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 40-54, figs. 1-10.
[In Russian, with title and summary also in English].

LEACH, L. D., and MEAD, S. W. Viability of sclerotia of Sclerotium rolfsii after passage through the digestive tract of cattle and sheep. *Journal of Agricultural Research*, Washington, D. C., 1936, Vol. 53, No. 7, pp. 519-526, figs. 1-3.
Literature cited, p. 526.

LEBEDJANSKAYA, M., MEDVEDEVA, V., and TCHERNOPANEVKINA, S. Trichogramma evanescens and its possible use in the control of insect pests. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 111-123.
[In Russian, with title also in English].

LIU, Chi-Ying. Studies on the spring brood larvae of the paddy borer, Schoenobius incertellus Walker. *Lingnan Science Journal*, Hongkong, 1936, Vol. 15, No. 4, pp. 543-556. Literature, pp. 555-556.

LOPATIN, M. I. The susceptibility of plants to Bact. tumefaciens, the causative agent of the root-cancer of plants. *Microbiology*, Moscow and Leningrad, 1936, Vol. V, Pt. 5, pp. 716-724. [Literature cited], p. 723.
[In Russian, with title and summary in English].

MALENOTTI, E[ttore]. Gl'insetti e il freddo. *Il Coltivatore e Giornale Vinicolo Italiano*, Casale Monf., 1937, anno 83° e 63°, n. 1, pp. 5-10.

MALENOTTI, Ettore. Un problema sempre aperto. La difesa del mais dalla piralide. *Giornale di Agricoltura della Domenica*, Roma, 1937, anno XLVII, n. 1, p. 1.
[*Pyrausta nubilalis*].

MARCHAL, Paul. Recherches sur la biologie et le développement des Hyménoptères parasites. Les Trichogrammes. *Annales des Épiphyties et de Phytogénétique*, Paris, 1936, nouv. sér., tome II, fasc. 4, p. 447-550, fig. 1-23, pl. I. Index bibliographique, p. 547-550.
[*Trichogramma cacoeciae, T. flavum, T. evanescens*, etc.].

MAZÉ, P., et MAZÉ fils, P.-J. Sur l'infection du maïs par le charbon (*Ustilago maydis*). *Comptes rendus des séances de la Société de Biologie et de ses filiales et associées*, Paris, 1936, tome CXXIII, n° 34, p. 936-939.

MEDISCH, M. N. Bakterielle Blattfleckenkrankheiten des Tabaks. *Proceedings of the Agricultural Institute of Krasnodar*, Krasnodar, 1936, issue IV, pp. 5-33. [Literature cited], pp. 31-33.
[In Russian, with title and summary in German].

MEDISCH, M. N. Wurzelbrand des Tabaks. *Proceedings of the Agricultural Institute of Krasnodar*, Krasnodar, 1936, issue IV, pp. 35-51. [Literature cited], pp. 50-51.
[In Russian, with title and summary also in German. — *Thielavia basicola*].

MEISAKHOVITCH, J. The scale of spray dispersion. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 32-37, 15 figs.
[In Russian, with title and summary in English].

MEYER, A. Methods of recording the affection of crops with smut under the conditions of large scale farming. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 133-137.
[In Russian, with title also in English].

MILAN, Angelo. Intorno alla simultanea presenza dei parassiti "Tilletia tritici" (Bjerk.) Wint. e "Ustilago tritici" (Pers.) Jens. su piante di frumento. *Nuovo Giornale Botanico Italiano* (Nuova serie), Firenze, 1936, vol. XLIII, n. 3, pp. 586-599.

MORGAN, A. Weeds in irrigation ditches. Methods for their control. *The Journal of the Department of Agriculture, Victoria, Australia*, Melbourne, 1936, Vol. XXXIV, Pt. 10, pp. 517-519, 3 figs.

MUNNS, E. N. A study of the effect of drought on trees. *Science*, Lancaster, Pa., 1936, New Series, Vol. 84, No. 2171, p. 136.

NOBLE, N. S. Fly parasites of grasshoppers. *The Agricultural Gazette of New South Wales*, Sydney, 1936, Vol. XLVII, Pt. 7, pp. 383-385, figs. 1-5. Literature cited, p. 385.
[*Locustivora pachytyli*, a new variety (not designated) of *Helicobia australis*, and *Trichopsidea ostracea* are parasites of *Chortoicetes terminifera*].

NOBLE, R. J. Ergot in Paspalum. *The Agricultural Gazette of New South Wales*, Sydney, 1936, Vol. XLVII, Pt. 7, pp. 403-405, 410, figs. 1-4.
[*Claviceps paspali*].

NOLL, A. Der Kartoffelschorf. *Forschungsdienst*, Neudamm und Berlin 1937, Bd. 3, Heft 1, S. 26-34. Schrifttum, S. 32-34.
[*Actinomyces*].

NOTLEY, F. B. *Pseudococcus kenyae* (Le P.) and climate. *The East African Agricultural Journal of Kenya, Tanganyika, Uganda and Zanzibar*, Nairobi, 1936, Vol. II, No. 3, pp. 217-219.

OBREGÓN B., Rafael. La lepra del café. *Boletín Agrícola*, Medellín-Colombia, 1936, año IX, nº 217, págs. 665 y 666. Bibliografía, pág. 666.
[*Cephaleuros virescens*].

OSTERWALDER, A. Die Blauspritzung gegen den Schorf an Apfel- und Birnbäumen. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 479-489.
[*Venturia inaequalis* and *V. pirina*].

OSTERWALDER, A. Versuche mit der Blauspritzung gegen die Schrotschusskrankheit der Kirschbäume. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 489-491.
[*Clasterosporium carpophilum*].

PAGE, A. B. P., and SHAFIK, M. Control of mites on insect-stocks and on fungus cultures by means of fumigation. *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIXe année, XXe vol., p. 110-143.

PAOLI, Guido. Alcune specie di *Empoasca* viventi in Egitto (Hemiptera-Homoptera). *Bulletin de la Société Royale Entomologique d'Egypte*, Le Caire, 1936, XXIXe année, XXe vol., p. 144-151, fig. 1-4. Bibliografia, p. 151.
[*E. decipiens, E. decedens, E. libyca, E. distinguenda* on different cultivated plants].

PATARAYA, S. I. The scales species in the tea regions. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 26-33, figs. 1-2.
[In Russian, with title and summary in English. — *Pulvinaria floccifera, Aspidiotus destructor*, etc.].

PIATNITZKY, G., and KLISHEVITSH, N. On the methodics of forecasting of the mass outbreaks of Euxoa segetum Schiff. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 83-91.
[In Russian, with title also in English].

PIGUET, G.-A. La teneur en arsenic des produits de vignes traitées aux sels arsenicaux. *Annuaire agricole de la Suisse*, Berne, 1936, 37e année, 9e fasc., p. 908-950, figs. 1-3. Bibliographie, p. 947-950.
[With summaries in French and German].

PILAT, M. A histological study of the toxic effect on the alimentary canal of insects. *Bulletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 79-91, pls. I-III.
[In Russian, with title and summary in English].

PILAT, M. Histological structure of blood of Locusta migratoria at poitsoning with stomach insecticides. *Bulletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 92-99, figs. 1-38. [Literature cited], p. 97.
[In Russian, with title and summary in English].

PORTAL, M. Notes on the heather beetle (*Lochmaea suturalis*). *The Scottish Forestry Journal*, Edinburgh, 1936, Vol. 50, Pt. 2, pp. 102-105, pl. XII.

PRINZ, J., und GUTIEVA, F. Die Anwendung von Trichogramma evanescens gegen Polychrosis botrana. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 76-82, figs. 1-2.
[In Russian, with title and summary in German].

RAO, Y. Ramchandra. The locust incursion of 1935 in North-West India. Its significance in the study of the locust problem. *The Indian Journal of Agricultural Science*, Delhi, 1936, Vol. VI, Pt. V, pp. 1031-1053, fig. 1, maps I-II. References, p. 1050.
[*Schistocerca gregaria*].

RICHTER, H. Fruchtfäule durch den Erreger des Obstbaumkrebses (Nectria galligena Bres.). *Angewandte Botanik*, Berlin 1936, Bd. XVIII, Heft 6, S. 477-481, Abb. 1-4. Literatur, S. 481.

RIEHM, E. Aufgaben vom Pflanzen- und Vorratsschutz in Vierjahresplan. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 3-8.

ROBERTS, John W. Recent developments in fungicides: spray materials. *The Botanical Review*, Lancaster, Pa., 1936, Vol. 2, No. 12, pp. 586-600. Literature cited, pp. 596-600.

ROUBAUD, E. Recherches expérimentales sur le criquet pèlerin. III. Sur certaines variations évolutives observées dans les élevages. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord*, Alger, 1936, tome XXVII°, n° 8, p. 387-391. [*Schistocerca gregaria*].

RUSSO, G. Contributo alla conoscenza degli insetti della Repubblica Dominicana (Antille). Nota su alcuni Tisanotteri. *Memorie della Società Entomologica Italiana*, Genova, 1936, vol. XV, fasc. I, pp. 42-54, figg. 1-4. Bibliografia, p. 54. [A list of 13 Thysanoptera; a very detailed description of *Selenothrips rubrocinctus* is given because of its economic importance].

SCHILCHER, Erich. Das Gelbrostauftreten. *Wiener Landwirtschaftliche Zeitung*, Wien 1936, 86. Jahrg., Nr. 34, S. 219-220.
[*Puccinia glumarum*].

SCHMIDT, Martin. Venturia inaequalis (Cooke) Aderhold. V. Weitere Untersuchungen über die auf verschiedenen Bäumen lebenden Populationen des Apfelschorfpilzes. *Die Gartenbauwissenschaft*, Berlin 1936, 10. Bd., 3. Heft, S. 422-427, Abb. 1. Literaturverzeichnis, S. 427.

SCHLUMBERGER. Die Erzeugung krebsfester anerkannter Pflanzkartoffeln in den Jahren 1934 und 1935. *Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin 1937, 17. Jahrg., Nr. 1, S. 4-5.
[*Synchytrium endobioticum*].

SELETZKI, J. The pests and diseases of citrus plants grown in pots. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 66-70, figs. 1-3.
[In Russian, with title and summary in English].

SILANTIEV, I. The significance of hemp stems soaking within the system of control measures against the corn borer. *Bulletin of Plant Protection*, I Series: Entomology, Leningrad, 1936, No. 14, pp. 7-32, figs. 1-5. [Literature cited], p. 31. [In Russian, with title and summary also in English. — *Pyrausta nubilalis*].

SILVESTRI, Filippo. I nuovi impianti di oliveti in relazione alla mosca delle olive. *L'Olivicoltore*, Roma, 1936, anno XIII, n. 12, pp. 3-7, 5 figg.
[*Dacus oleae*].

SILVESTRI, F[ilippo]. Les nouvelles plantations d'oliviers et la mouche de l'olive. *Feuilles d'informations oléicoles internationales*, Rome, 1936, I[ère] année, n° 12, p. 277-280.
[A French translation of the preceding article by the same author].

SKRJABINA, E. pH of the insect's intestines and blood and its modification at poisoning with arsenic and fluorine compounds. *Bulletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 9-23, figs. 1-5. [Literature cited], pp. 22-23.
[In Russian, with title and summary also in English].

SOKOLOVSKAYA, R. The adhesiveness of certain types of the preparation „ PD ". *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 27-31. [Literature cited], p. 31. [In Russian, with title and summary in English].

SPRENG, Fritz. Bericht der kantonalen Zentralstelle für Obstbau, Wallierhof, Solothurn, über Versuche mit Blauspritzung und Veralin + Virikupfer. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 499-501.

SPRENG, H. Bericht der kantonalen Zentralstelle für Obstbau, Oeschberg, Kt. Bern, über Blauspritzversuche. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 501-506.

STAEHELIN, M. Die diesjährigen Schorfbekämpfungsversuche mit Einschluss der Blaubespritzung. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1936, 45. Jahrg., Nr. 26, S. 491-499.
[*Venturia inaequalis*].

STEHR, Wm. C., and FARRELL, Wm. Two hemipterous enemies of the Mexican bean beetle in Ohio. *The Ohio Journal of Science*, Columbus, Ohio, 1936, Vol. XXXVI, No. 6, pp. 332-333. Bibliography, p. 333.
[*Perillus circumcinctus* and *Arilus cristatus* as enemies of *Epilacna corrupta*].

STRITT, Walter. Der Blattminierer Fenusella glaucopis Knw.(Hym.,Tenthr.). *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1936, 46. Bd., Heft 12, S. 608-614, Abb. 1-4. Literatur, S. 614.

SUBKLEW, Werner. Zur Kenntnis der Larven der Melolonthinae. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 18-34, Abb. 1-8. Literatur, S. 32-34.

TSCHUGUNIN, J. Investigations on oil-clay emulsions. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 23-26. [Literature cited], p. 26.
[In Russian, with title and summary in English].

TSIOPKALO, V. The control of cockchafer by means of dusting of food trees. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 92-110, figs. 1-4. [Literature cited], p. 109.
[In Russian, with title and summary in English. — *Melolontha hippocastani*].

TVERSKOY, D. On the direct action of some chemical compounds on the spores of Plasmodiophora brassicae. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 137-140. [Literature cited], p. 140.
[In Russian, with title also in English].

USTINOV, A. A. The gallic nematode as a tung tree pest. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 20-25, figs. 1-6. [Bibliography], p. 25.
[In Russian, with title and summary in English. — *Heterodera marioni* on *Aleurites*].

VELASCO LLANOS, Vicente. El gusano de la col. *Boletín Agrícola*, Medellín-Colombia, 1936, año IX, n.º 218, págs. 693 a 699, 4 figs. Bibliografía, pág. 699.
[*Pieris* sp.].

VILJOEN, P. R. Progress in agriculture. A review of farming conditions and problems. Annual report of the Department of Agriculture and Forestry for the year ended 31 August 1936. *Farming in South Africa*, Pretoria, 1936, Vol. XI, No. 129, pp. 493-550.
[Contains, *inter alia*:—
Locust Destruction (pp. 509-512, 2 maps)].

VITENSON, D. Serological methods in the phytopathological estimation of seeds. *Plant Protection*, Leningrad, 1936, fasc. 9, pp. 38-48. [Literature cited], p. 47.
[In Russian, with title and summary in English].

VOITENKO, M. P. The problem of citrus trees fumigation with hydrocyanide gas. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 34-40.
[In Russian, with title and summary in English].

VOLLERT, H. E. Der deutsche Pflanzenschutzdienst. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 8-11.

VOSKRESENSKAJA, A. Poison penetration through the intestine wall of insects. *Bulletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 25-39, figs. 1-8. [Literature cited], p. 37.
[In Russian, with title and summary aso in English].

VOSKRESENSKAJA, A., DODONOV, B., LAVROV, I., PARAMONOVA, V., [and] SKRJABINA, E. Some data on mechanism of action of the stomach insecticides and the comparative resistance of the insects to the poison. First report. *Buletin of Plant Protection*, III Series: Control measures and implements, Leningrad and Moscow, 1936, No. 7, pp. 7-8.
[In Russian, with title also in English].

WALTON, C. L. The cause of a "spotting" of tomato fruits (stigmonose). *The Gardeners' Chronicle*, London, 1937, Third Series, Vol. CI, No. 2610, pp. 12-24, figs. 8-9.
[It was found that this injury could be readily produced by the action of sunlight upon water droplets on the fruits].

WANG, Fei-pang, & MA, Ngang-tsien. A record of citrus insects collected from the light-trap in Hwanggen, Chekiang. *Entomology & Phytopathology*, Hangchow, Chekiang, China, 1936, Vol. IV, No. 33, pp. 650-653.
[In Chinese, with title also in English].

WARTENBERG, Hans, und HEY, Alfred. Die elektrometrische Pflanzgutwertbestimmung der Kartoffelknolle. Vierte Mitteilung: Das Redox potential der Gewebebreiaufschlämmung der Kartoffelknolle als Kennziffer des Abbaues. *Phytopathologische Zeitschrift*, Berlin 1936, Bd. IX, Heft 6, S. 531-569, Abb. 1-16. Schriftenverzeichnis, S. 569.

WHITE, C. T. Queensland weeds. *Queensland Agricultural Journal*, Brisbane, 1936, Vol. XLV, Pt. 3, pp. 258-259, pl. 78.
[*Tridax procumbens*].

WILLE, Johannes E. El "control biológico" de ciertos insectos dañinos en el Perú. *La Vida Agrícola*, Lima-Perú, 1936, vol. XIII, no. 156, págs. 879 a 882.
[Biological control of *Hemichionaspis minor, Eriosoma lanigerum, Diatraea saccharalis, Icerya purchasi, Pseudococcus citri, Carpocapsa* (*Cydia*) *pomonella*, etc.].

WOO, F. C., and CHENG, T. S. A general investigation of the locust outbreaks in China during the year 1935. *National Agricultural Research Bureau. Ministry of Industry. Special Publication No. 14*, Nanking, China, 1936, 20 pp., 3 figs.
[In Chinese, with title and summary in English. — *Locusta migratoria, Ceracris kiangsu*]

YAO, Hsiang-chen. Two species of Aphididae new to China. *Entomology & Phytopathology*, Hangchow, Chekiang, China, 1936, Vol. IV, No. 33, pp. 653-656, figs. 1-10.
[*Greenidea kuwanai* and *Cervaphis quercus* on *Quercus serrata*].

YGLESIAS, Bernardo R. Origen de la "gotera" en los cafetales y modo de combatirla. Importantes indicaciones. *Revista de Agricultura*, San José, Costa Rica, 1936, tomo VIII, núm. 12, págs. 404 y 405.
[*Omphalia flavida*].

YORK, Harlan H., WEAN, Robert E., and CHILDS, Thomas W. Some results of investigations on Polyporus Schweinitzii Fr. *Science*, Lancaster, Pa., 1936, New Series, Vol. 84, No. 2172, pp. 160-161.

ZVORYKINA, N. A. The ramie pests in Western Georgia. *Soviet Subtropics*, Moscow, 1936, 12 (28), pp. 75-78.
[In Russian, with title also in English].

ZWEIGELT, Fritz. Verfallserscheinungen am Rebstock. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1937, 47. Bd., Heft 1, S. 11-18. Schriftenverzeichnis, S. 17-18.

NOTES

IIIrd Soviet-Afghan Locust Control Conference. — The third Soviet-Afghan Locust Control Conference was recently held at Stalinabad, Tazhikistan. Having heard the reports on the results obtained in 1936 in the frontier regions of the U. S. S. R. and Afghanistan, the Conference decided to continue the control of this scourge with the same energy during the year 1937.

Prof. ALESSANDRO BRIZI, *Segretario generale dell'Istituto, Direttore responsabile.*

SOME PUBLICATIONS ISSUED
BY THE INTERNATIONAL INSTITUTE OF AGRICULTURE

(A complete list of the publications will be sent on request).

Actes de la conférence internationale pour l'organisation de la lutte contre les sauterelles. Rome, 28-31 octobre 1920 (1921, 171 pp., 8vo) . . . . . * 15 lire

The Loss to Agriculture caused by Factory Fumes. Lectures given at the International Institute of Agriculture by Professor H. CRISTIANI, Geneva, and Professor Dr. J. STOKLASA, Prague (1927, 26 pp., 3 figs., 25 pls., 8vo) . . . * 15 »

Actes de la conférence internationale pour la protection des plantes. Rome, 10-16 avril 1929 (1929, 201, pp., 8vo) * 25 »

INTERNATIONAL YEARBOOK OF AGRICULTURAL STATISTICS, 1934-35

PRICE: * 90 lire (CLOTH-BOUND: * 100 lire).

THE WORLD AGRICULTURAL SITUATION IN 1934-35

Economic Commentary on the International Yearbook of Agricultural Statistics for 1934-35.

PRICE: * 25 lire.

ANNUAIRE INTERNATIONAL DE LÉGISLATION AGRICOLE, 1935

XXV^{ème} ANNÉE

(French edition only)

PRICE: * 75 lire (CLOTH-BOUND: * 85 lire).

** Not including an addition of 10 % for cost of postage and packing.*

INTERNATIONAL REVIEW OF AGRICULTURE

Published monthly and incorporating:—

(1) **Monthly Bullettin of Agricultural Economics and Sociology;**
(1) **Monthly Crop Report and Agricultural Statistics;**
(3) **Monthly Bullettin of Agricultural Science and Practice;**
(4) **International Bullettin of Plant Protection.**

ANNUAL SUBSCRIPTION	* 125 lire
SEPARATE NUMBERS, EACH	** 14 »

* For Italy and Italian Colonies 100 lire.
** For Italy and Italian Colonies 10 lire.

Special subscription for each of the ***four reprints*** *of the INTERNATIONAL REVIEW OF AGRICULTURE:—*

(1) **Monthly Bulletin of Agricultural Economics and Sociology.**	ANNUAL SUBSCRIPTION	(a) 45 lire
	SEPARATE NUMBERS . .	(b) 5 »
(2) **Monthly Crop Report and Agricultural Statistics**	ANNUAL SUBSCRIPTION	(a) 45 »
	SEPARATE NUMBERS . .	(b) 5 »
(3) **Monthly Bulletin of Agricultural science and Practice**	ANNUAL SUBSCRIPTION	(a) 45 »
	SEPARATE NUMBERS . .	(b) 5 »
(4) **International Bulletin of Plant Protection.**	ANNUAL SUBSCRIPTION	(a) 40 »
	SEPARATE NUMBERS . .	(c) 4 »

(a) For Italy and Italian Colonies 36 lire.
(b) For Italy and Italian Colonies 4 lire.
(c) For Italy and Italian Colonies 3.50 lire.

GOVERNEMENT MEASURES AFFECTING AGRICULTURAL PRICES

An International Quartely Summary of Government Measures Affecting the Prices of Cereals, Meats and Dairy Products.

ANNUAL SUBSCRIPTION	* 25 lire
SEPARATE NUMBERS, EACH	** 7.50 »

* For Italy and Italian Colonies 20 lire.
** For Italy and Italian Colonies 6.

In the prices shown above the cost of postage is included.

All **subscriptions** and **remittances** for the publications of the Institute should be made direct to the

INTERNATIONAL INSTITUTE OF AGRICULTURE

Villa Umberto I. ROME (110), Italy.